

Hanford Spent Nuclear Fuel Project



National Spent Nuclear Fuel Strategy Meeting

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Hanford Spent Nuclear Fuel

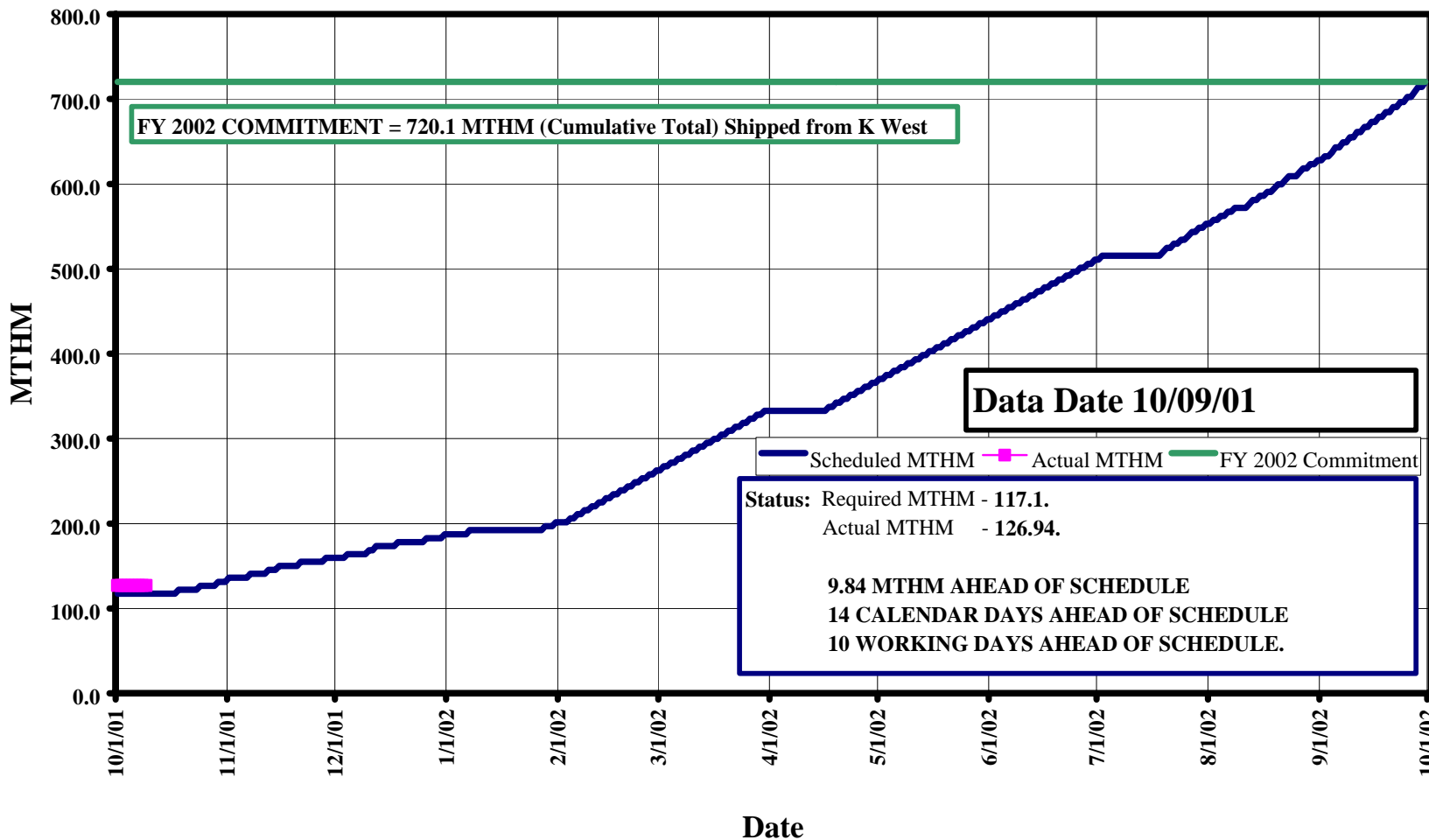
- K Basins Fuel Removal Activities
 - *Fuel Removal Progress*
 - *Production Improvements*
- Shippingport Fuel Removal Activities
- Other Hanford Fuel Activities

K Basins Fuel Removal Progress

- Initiated Fuel Removal from K West Basin (December 2000)
- 27th Multi-Canister Overpack Removed from K West Basin (September 2001)
- Fuel Removal from K Basins to Complete by July 2004

First MCO shipment leaving K West Basin December 7, 2000

FY 2002 Metric Tons of Heavy Metal (MTHM) Shipped Versus Commitment



K Basins Fuel Removal



Above: First fully loaded fuel basket. Right: First loaded MCO/Cask being removed from K West Basin and loaded on transporter.



K Basins Fuel Removal (Continued)



*Above: First fully loaded
MCO/Cask arriving at CVD
Facility. Right: First fully loaded
MCO/Cask arriving at CSB.*

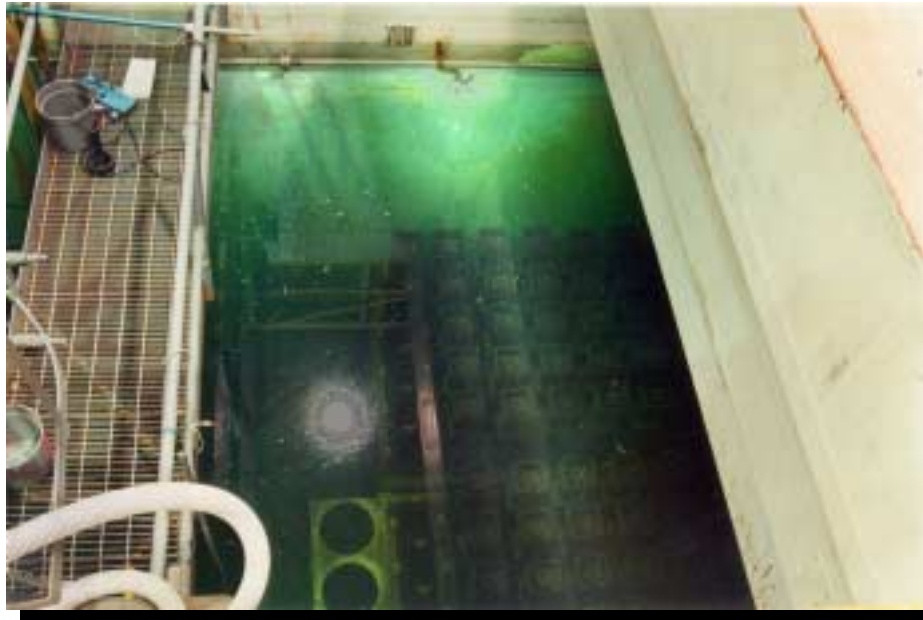


K Basins Fuel Removal Production Improvements

- K West Basin
 - *Current average shipping interval ~53 working hours per MCO*
 - *Improvements through addition of secondary manual process tables, fuel inspection efficiencies, cold component deliveries*
- KE to KW Basin Transfers
 - *Fuel Transfer System Acquisition On-going*
 - *Construction Start in October*
- Cold Vacuum Drying
 - *Current average processing time < 90 working hours*
 - *Improvements through reduced setup time, reduced process water flush volumes, RadCon efficiencies*
- Hiring for 24/7 operations on-going

Shippingport Fuel Removal

- 72 Assemblies Currently in Wet Storage at T Plant
- Fuel removal and transfer to Canister Storage Building planned for FY02
- Requires 18 MCOs with modified shield plugs (Shippingport Spent Fuel Canisters)



*Current wet storage of
PWR Core 2 blanket fuel
assemblies at T Plant.*

Shippingport Fuel Removal

- Fuel Removal Dry Runs successfully performed at T Plant
- Contractor Operational Readiness Review completed for T Plant fuel removal activities
- Department of Energy Operational Readiness Review initiated for T Plant fuel removal activities
- OCRWM QA Program comment resolution ongoing with National SNF Program
- Fuel removal scheduled to start November 12, 2001

Other Hanford Fuel Activities

- Preparations On-going for Fuel Consolidation at 200 Area Interim Storage Area
 - *TRIGA fuel movement May 2002*
 - *324 Building LWR fuel transfers August 2002-March 2003*
 - *FFTF fuel transfers starting May 2003*
- F Reactor Basin Single Pass Reactor fuel transfers to KE Basin October/November 2001